

### **Defense Systems Management College**

Ft. Belvoir, Virginia June 22-23, 1999

REPORT D	Form Approved OMB No. 0704-0188			
Public reporting burder for this collection of information is estibated to and reviewing this collection of information. Send comments regarding Headquarters Services, Directorate for Information Operations and Rep law, no person shall be subject to any penalty for failing to comply with	this burden estimate or any other aspect of this coll orts (0704-0188), 1215 Jefferson Davis Highway, S	ection of information, including uite 1204, Arlington, VA 22202	suggestions for reducing 2-4302. Respondents shou	this burder to Department of Defense, Washington ald be aware that notwithstanding any other provision of
1. REPORT DATE (DD-MM-YYYY)	2. REPORT TYPE	·	3. DATES (	COVERED (FROM - TO)
22-06-1999	Conference presentations	1 1		to 23-06-1999
4. TITLE AND SUBTITLE			. CONTRACT	
In-House EVM Workshop Unclassified			5b. GRANT NUMBER	
Uliciassified		5c.	. PROGRAM E	ELEMENT NUMBER
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		5e.	. TASK NUME	BER
		5f.	WORK UNIT	NUMBER
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		<b>1</b>		Standard Form 298 (Rev. 8-98) Prescribed by ANSI Std Z39.18

### **Objectives**

- Identify issues and obstacles to the effective use of EVM on in-house projects
  - Develop list of recommendations and solutions
- Share best practices and lessons learned

## Agenda

<u>Day 1 – Tuesday, June 22, 1999</u>	The state of the s
Opening remarks and administrative information	8:00 – 8:15
OSD Perspective – Gary Christle	8:15 – 9:00
"A View from the Field" – selected speakers	9:00 – 10:00
Break	10:00 - 10:15
Form topic discussion groups	10:15 – 10:30
Topic discussions	10:30 - 11:30
Lunch – Ft. Belvoir Officers Club	11:30 – 1:00
Topic discussions	1:00-4:30
Daily wrap-up	4.30 - 5.00

## Agenda - cont.

	Day 2 – Wednesday, June 23, 1999	The state of
7	Topic discussion	8:30 – 11:30
	Lunch - roundtable software discussion	11:30 – 1:00
A	Topic discussions	1:00-2:00
Ż	Break (reconvene in Bldg. 292)	2:00 – 2:15
	Topic debriefs	La Maria
7	# 1 Validation and Surveillance – Bill Gibson	12:15 – 2:45
	# 2 Implementation Considerations – Tom Bryant	2:45 – 3:15
- A	Break	3:15 – 3:30
	# 3 Accounting Systems – Mark Zenthoefer	3:30 – 4:00
	# 4 Data Analysis and Training – Susan Wood	4:00 – 4:30
7	Wrap-up	4:30 – 5:00

### Other Activities

- Tuesday Luncheon Presentation
  - Speaker: Rob Robbins (F-14 PMO)
  - Place: Ft. Belvoir Officers Club
    - Time: 11:30-1:00
    - Cost: \$12.50 for all-you-can-eat buffet
- Wednesday SW Roundtable Discussion
  - Host: Dave Melton
    - Place: Classroom #73, Building 207
    - Time: 11:30 1:00
  - Lunch available at the cafeteria in Building 207

### Administrative Information

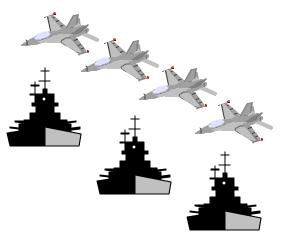
- Messages
  - Voice messages: 703-805-2848
  - Email messages: waelchli@dsmc.dsm.mil
    - Faxes: 703-805-3184
- Cafeteria
  - Located in Building 207
    - Hours: 6:30 AM to 1:30 PM daily



### Earned Value

# A Manager's Tool for Integrated Cost, Schedule and Technical Performance Management

OUSD(A&T)SA/PM



#### 1961 Pentagon Spending:

- 40% of Federal Budget
- 8% of GDP

### \$\$\$



- 15% of Federal Budget
- 3% of GDP

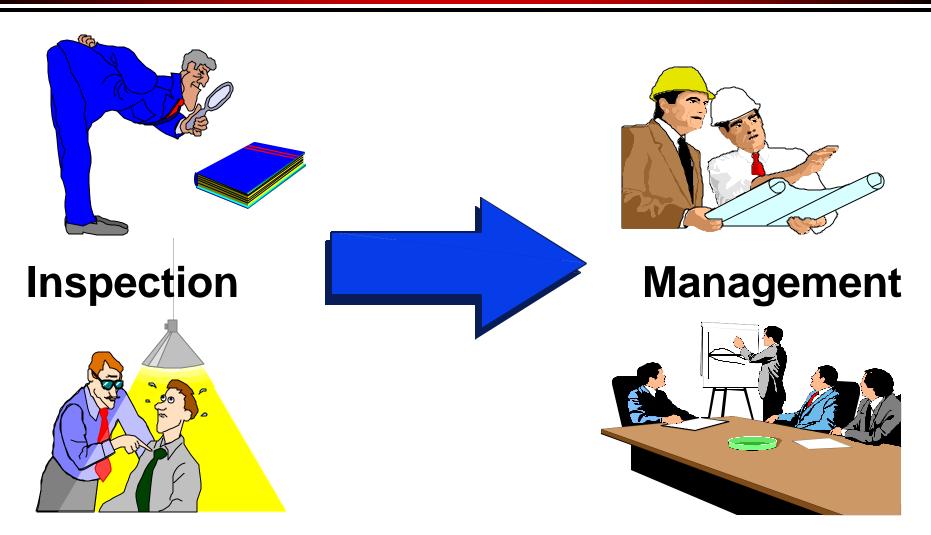
#### Military Procurement Budget:

- Down 67% since 1985 peak
- \$60 Billion goal



Lockheed The 1990's - Shrinking GD Mil. Jets Lockheed Sanders Assoc. Industrial Base **Martin Marietta GD** Rockets **Martin Marietta GE** Aerospace Loral **Lockheed Martin Unisys Defense IBM Fed. Systems** Loral LTV Missiles Ford Aerospace **Goodyear Aerospace Northrop** LTV Aircraft **Northrop Grumman** Grumman **Westinghouse Def Boeing Boeing Rockwell Def & Space Rockwell Def & Space McDonnell Douglas McDonnell Douglas** Raytheon Raytheon **E-Systems Texas Instruments Def Texas Instruments Def** Raytheon **Hughes Aircraft Magnavox Def Hughes Aircraft CAE Link GD** Missiles

## Reengineering EVMS October 1993 - A Vision



## **Earned Value Management: Implementation Problems**

- "Financial Management"
- Audit-like reviews
- Reporting focus
- Too many "surprises"
  - ◆ A-12 (Navy)
  - ◆ AAWS-M (Army)
  - ◆ C-17 (Air Force)





### Lesson of the A-12

The "Beach" Report, A-12 Administrative Inquiry, 28 Nov 1990

- Too often, earned value insights remain the sole province of the supporting program control staff of both contractors and the government.
  - ◆ Earned value must be an integral part of the performing design and manufacturing organizations.
  - ◆ Only when program technical staffs are held accountable for earned value analysis, will they begin to understand its implications.

## The Need For Change: C/SCSC never had a chance!

- RFP Review Results 1991 1993
- Significant misapplication of requirements
  - ♦50% have WBS problems
  - ◆75% have excessive variance reporting requirements

6/21/99

## Unnecessary Cost

December, 1994, Coopers & Lybrand/TASC Study:

"The DoD Regulatory Cost Premium: A Quantitative Assessment"

and

COST/SCHEDULE CONTROL SYSTEMS (C/SCS)

### C&L/TASC Cost Drivers: Cost without a requirement

- Total DoD Cost Premium is 18%
- C/SCS Cost Premium is 0.9%
  - ◆ Nearly 3/4 is in Eng'g/Prog Mgmt
    - Written control account variances
  - Most of Remainder is in administrative and external reporting activities

### Good idea, bad implementation

(C&L/TASC Cost Drivers)

- "In general, industry views the general framework and principles of cost/schedule reporting positively.
- However, all contractors subject to C/SCS agree that, as currently required by DoD, cost/schedule reporting is too detailed, repetitive, and voluminous to be used effectively as a management tool by either the government or industry..."

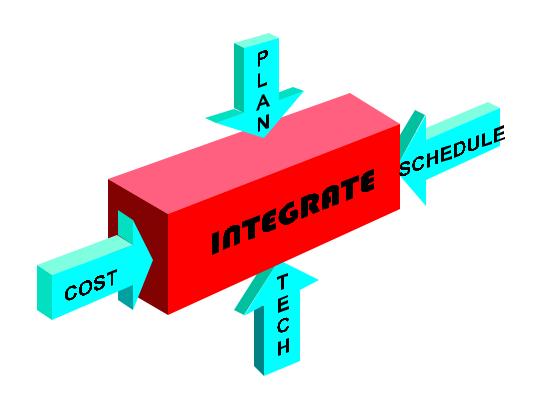
### The paradigm must change

- EVMS <u>reporting</u> system is of little value;
- Program Management, not audits;
- The Vision:
  - ◆ The quality of a contractor's management system is determined
  - not by the absence of defects,
  - ◆ but by the presence of management value.

## Services & industry Challenged Implement "Model Program"

- Initiated Oct 93
- Shift Ownership From Financial Management to Program Management
  - Change emphasis from government system to contractor systems
  - Reduce the review burden
  - ◆ Limit reporting
  - Ensure comprehensive planning and common understanding of the task
  - Integrate cost, schedule, technical performance, and risk management

## The Acquisition Executives Take Charge



#### INTEGRATED PROGRAM MANAGEMENT INITIATIVE

September 1994

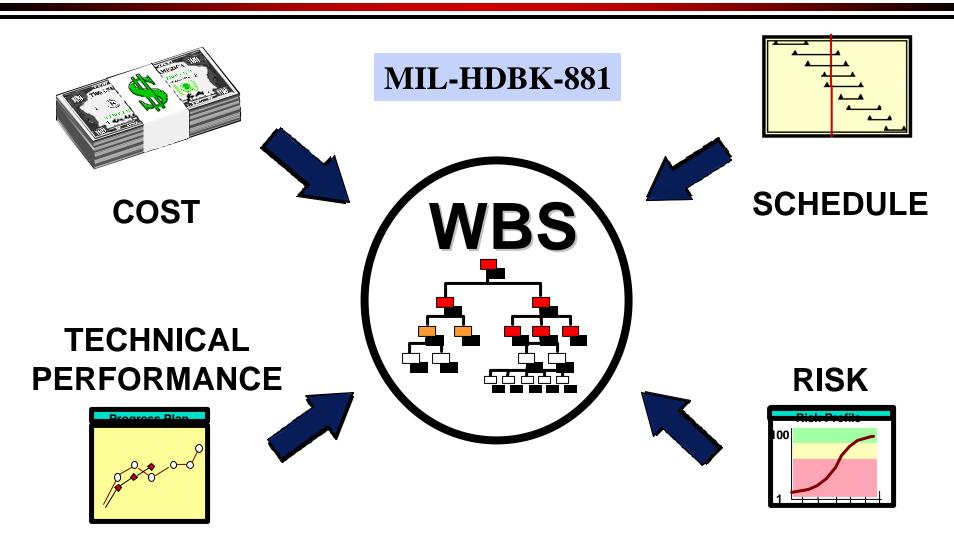
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### **Key Building Blocks**

### **Integrated Program Management Initiative**

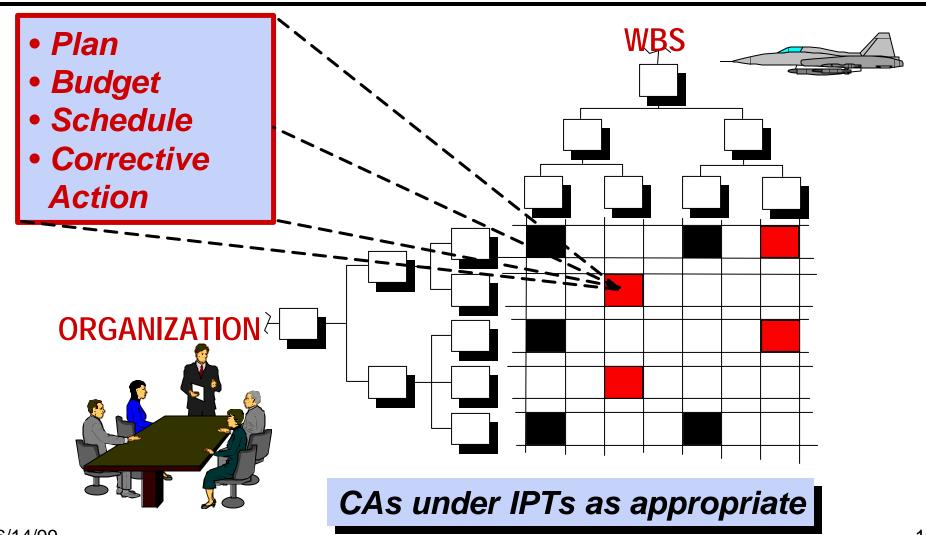
- Model Program Objectives
- WBS
- IPTs
- Integrated Baseline Review (IBR)
- "Right Size" Reporting
- Integrated Digital Environment
- Training

## Work Breakdown Structure: The Key to Integration



6/21/99

## The Control Account: Where the Action is



### Reengineering EVM: Integrated Baseline Reviews

- Within 6 months of award
- Mutually understand plar IBR Training
  - **♦**Scope
  - **◆**Schedule
  - **◆**Resources j

Risk

Planning process vs. event

- PM leads
  - **◆ EVM staff supports**
  - Management system reviews effectively eliminated

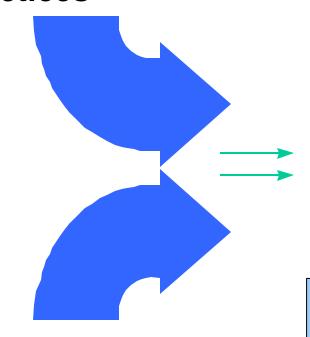


### Growing Consensus: Gov't/Industry Best Practice

- Dec. '96 DoD accepted industry EVMS guidelines as C/SCSC replacement
- Reserved right for government reviews
  - As determined by project manager
  - "Self-certification" not in public interest
- Encouraged "true" standard
  - **◆ ANSI/EIA** 748-98 EVMS issued in 1998
  - DoD and industry EVMS criteria are equal
  - International discussions Australia, Canada, UK, US

## Earned Value Management: Origins

Industry Best Practices



Government Requirements

**1967: DoD Instruction 7000.2** 

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**Criterion-based Management** 

- Brief statements of attributes
- Not "how-to manage"
- Not a system
- Minimum acceptable standard

1997: DoD Regulation 5000.2-R

32 Earned Value Management Systems (EVMS) Criteria

### DoD Since 1993... Results!

#### DoD EVM

- ◆ Value reaffirmed
- ◆ Shifted to Industry;
  DCMC Exec. Agent
- ◆ OMB policy
- ◆ Trilateral MoU
- ◆ Intl. Perf. Mgmt. Council
- ◆ Commercial
- ♦ In-house

- Prof. associations
- ◆ Adopted by NASA, FAA, NRO, FBI, CoE
- **♦** Enterprise-wide
  - Boeing
  - Raytheon
  - Lockheed Martin
  - and others...
- ♦ No major surprises

Aggregate overrun 5.5% (\$1.2B on \$72.8B; 66% comp.)

## They're even doing it in industry!

#### Industry

- ◆ Boeing Defense & Space Group
- ◆ Lockheed Martin Sunnyvale
- ◆ McDonnell Douglas
- ◆ Motorola Iridium tm
- ◆ Navistar
- ◆ Delta Airlines
- ◆ Delco Electronics
- ◆ Industry "Standard"
  - -ANSI
- Project Management Institute

## In-house Workshop Tasks My *Opinions*

#### Validation & Surveillance

- Policy changes?
- ♦ Who performs?

#### Implementation

◆ Can in-house meet all 32 criteria?

#### Accounting Systems

◆ Are DoD, non-CAS systems compliant?

#### Data Analysis & Training

◆ Do PMs need EV data?

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## Earned Value Management Systems Basic requirements

#### COMPREHENSIVE PLANNING PROCESS

- ◆ Covers entire statement of work
- Schedules activities
- ◆ Allocates resources

#### FULLY INTEGRATED MANAGEMENT SYSTEMS

- Scheduling systems integrated with one another, and with work authorization system, accounting system, MRP, work measurement system, etc. For example:
  - Interdependencies between department, functional, and/or IPT schedules (horizontal integration)
  - Interdependencies from lowest level to master schedule (vertical integration)

### **VISION**

The quality of a contractor's management system is determined not by the absence of defects, but by the presence of management value

## NAVAL AVIATION SYSTEMS TEAM



**Earned Value Management** in the Naval Aviation Depot Environment



### Why Earned Value Management?

- AIR-00 Monthly Question "How are we doing?" i.e. Aircraft Deliveries to the Fleet Customer
- Current Metrics
  - "Reporting of History"
    - Financial Completions, months past delivery
- Future Metrics
  - "Reporting In Process Status and Projecting the Final Outcome."
    - Forecast future deliveries based EAC calculations



### **EVM Recipe for Success**

NAVAIR
Business Process
Reengineering
(BPR)



**Business Processes** 



**Organization Relationships** 



**Information Technology** 



#### **Business Processes**

- Challenge of changing processes
  - How to move from "As Is" to "To Be"?
  - \_ "As ]s"
    - Functional stovepipes focused on sub-optimized processes
    - "We've always done it this way"!
  - "To Be"
    - Integrated
      - PLANNING
      - SCHEDULING
      - EXECUTION
      - PERFORMANCE MEASUREMENT



### Organization Relationships

- Eliminate functional stovepipes
- Establish independent profit & loss cost centers
  - By product line, by NAVAIR IPT
  - Process Centric (EVM/ABM)
  - Single Project Manager
  - Budget Authority
  - Negotiated resources



#### **Information Technology**

#### Current Environment

- Multiple Project Management Tools
- No functional baseline or standards
- Emotional ties to favorite software

#### Changes

- Single set of software tools
- Allocated functional baseline
- Standard data and reporting



#### Conclusion

- Change management
  - Significant effort expended on changing:
    - Minds
    - **Attitudes** 
      - Shifting organizational behavior
  - It's more emotional than technical



# "Strangely enough, this is the past that somebody in the future is longing to go back to."



# OSD In-House Earned Value Management Workshop

22 - 23 June 1999



#### Table of Contents

- EVM In-House Workshop Findings
- Lessons Learned
  - Implementation Considerations
  - System Validation
  - System Certification
  - System Surveillance
  - Training
  - Government Accounting
    - Management Information System
- Workshop Recommendations

## EVM In-House Workshop Findings



- EVM implementation within DoD further along than perceived
- Direction reaffirmed
  - Need to Clarify In-House effort
    - DODI 5000.2R
    - Update EVMIG
- System validation not mandatory for EVM implementation
- Standard tool set recommended





- 1. Insufficient implementation guidance on EVM
  - Culture change required.
  - How to fund implementation.
- 2. Education and training
  - Funds vs. budget
- 3. Timing of funding
- 4. Need contract / work authorization document.
- 5. Modifying legacy system may not be the way to go.
- 6. "Customer Management"/Baseline Management
  - PEO/PMO must change how business is transacted
- 7. Management Incentives

## Lessons Learned System Validation



- Must comply with 32 criteria
- Must have DoD acceptance
  - DCMC: Validating Agent
    - Limited resources focused on contractors
  - Buying Command: No authority

# Lessons Learned System Certification



- Must comply with 32 criteria
- DoD Acceptance not required
  - Buying Command can be Certifying Agent
    - Certification valid only within component
  - DCMC: Consultant

## Lessons Learned System Surveillance



- Self Surveillance
  - In-House staff: Primary responsibility
  - PEO / Program Office Staff: As required
  - DCMC Assistance: Upon request
- Types of surveillance:
  - Program
  - System
    - SPC metrics "system health analysis"

# Lessons Learned Training



- Target audiences
  - No "one size fits all"
  - Integrate training
    - Scope, schedule, budget/funds
- Web-based and on-site instruction
- Train the trainers
- Procedural training
- On the Job
- Continuing education



# Lessons Learned Government Accounting

 Intent of EVM Accounting Criteria based on compatibility with DoD Directive 5000.1b

 Accounting system acceptance subject to certification vs. validation requirements

**DoD Directive 5000.1b** 

g. Management Control

..."In implementing internal management control systems, managers should focus on results not process."

## Lessons Learned Government Accounting



#### Budget vs. Costs

- Must separate revenue (funding document) from expense (project costing)
- Color of money doesn't affect scope
- May be helpful to keep revenues at summary level in accounting interface

#### Materials

- WIP: Cannot usually pull ACWP from financial system -- parts purchase doesn't equal parts usage
- Must use estimations of issuance or track on shop floor

# Lesson Learned Management Information System

- Accounting system must have three purposes
  - Data Storage / Accounting Interface
    - Incremental vs. cumulative
    - By element of cost
    - Data accessible at least monthly
  - Job Cost Accounting
  - Financial Management
    - Project Actuals
    - Funds / Revenue

# Lesson Learned Management Information System

#### Recommended Process Owners

Function Belongs to Influenced by

Data Storage / Comptroller

**Accounting Interface** 

Job Cost Accounting Comptroller Project Manager

**Financial Management** 

**Project Expenses** Project Manager

Funds/Revenue Project Manager Comptroller



#### Workshop Recommendations

- 1. Form PMAC Working Group to resolve Depot and Logistics issues.
- 2. Need OSD "In-House" Web Site/Deskbook Reference
  - Best Practices
  - Lessons Learned
    - POC: Type of Effort, Location, Office, Phone No, E-mail
  - Training References
  - Tool Sets











- The Naval Aviation Depot is an industrial facility within the NAVAIR corporation
- "Depot" level rework is performed on aircraft, engines and components





	_	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
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Building Blocks Blocks

Changed Org. Culture

Reliable Data

**Appropriate Work Breakdown Structure** 

**Responsible Control Account Managers** 

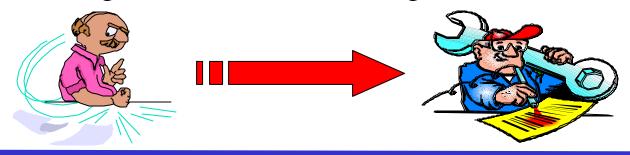
**Realistic Critical Path Model** 

**Early Management Buy-In** 



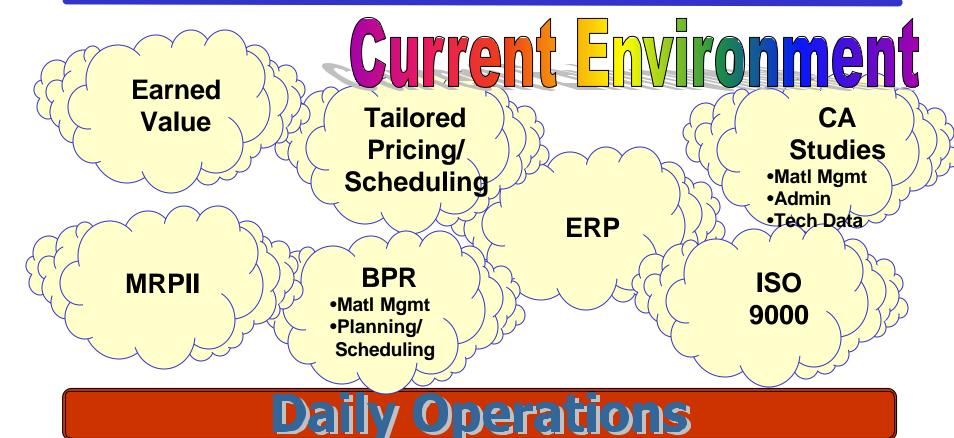


- Early Management Buy-In
  - Understanding. . .
    - what EV is and the benefits
    - the process and resource requirements
    - customer requirements
    - the integration with other management initiatives













tailored to reflect

project constraints

- Realistic Critical Path Model
  - Measurable activities which relate to the work to be accomplished Template model
  - Production input
  - Relationships drive the schedule

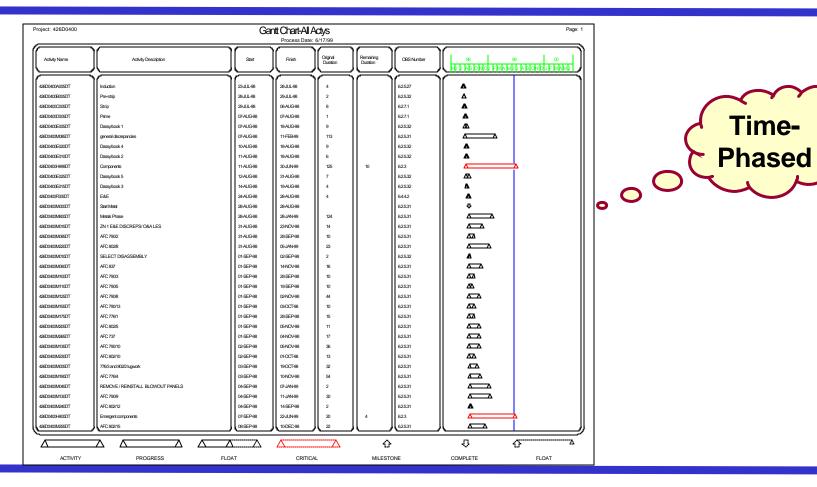
















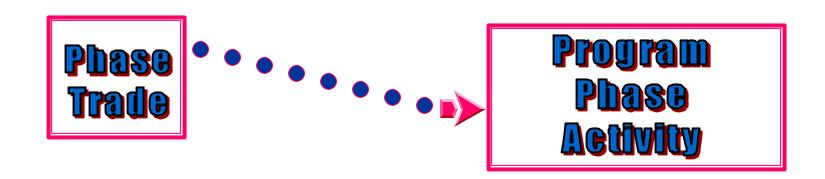
• Responsible Control Account Managers







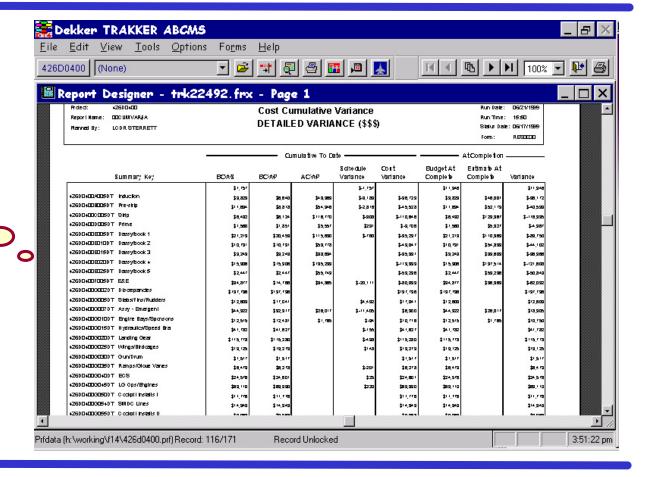
- Appropriate Work Breakdown Structure
  - Must relate to production-based activities







Meaningful **Variance Analysis** 



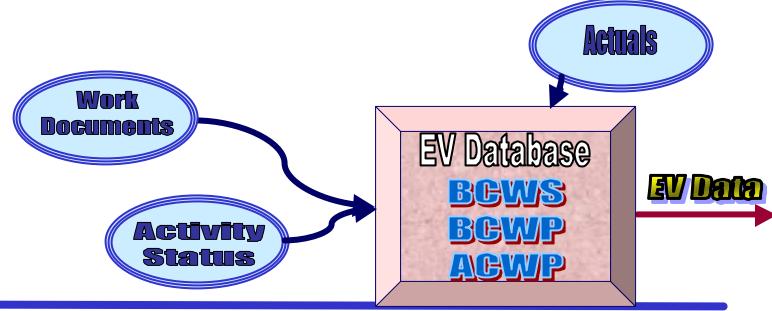




#### • Reliable Data

- Centralized EV data
- Defined interfaces

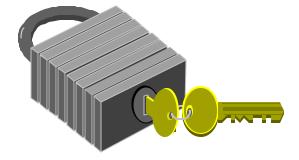
- Timeliness required to manage proactively







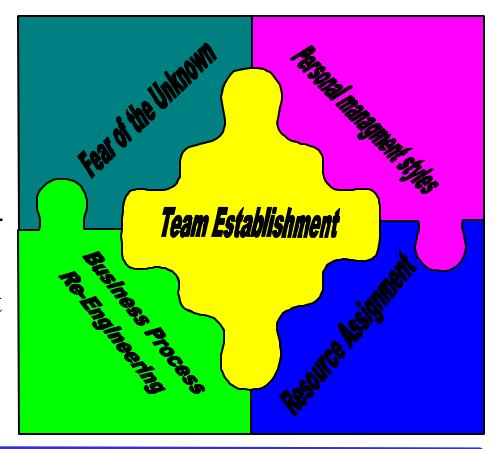
- Changed Organizational Culture
  - Accepted management tool
  - Production floor buy-in
    - CPM Model
    - Variance Analysis at a meaningful level







- Evolving process
  - Fear of the unknown
  - Adapting to personal management styles
  - Business Process Re-Engineering
  - Resource assignment
  - Team establishment

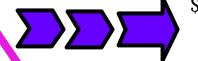


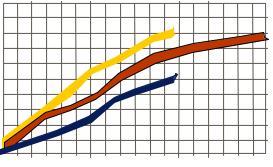




Changed Org. Culture

Reliable **Data** 





**Appropriate Work Breakdown Structure** 

**Responsible Control Account Managers** 

**Realistic Critical Path Model** 













# IN-HOUSE (GOVERNMENT) EVMS WORKSHOP

# VALIDATION & SURVEILLANCE

Mr. William "Bill" Gibson Mr. Dominic A. "Chip" Thomas



# IN-HOUSE (GOVERNMENT) EVMS WORKSHOP

#### **VALIDATION**

- WHY VALIDATE/CERTIFY
  - WHO PAYS THE COST
    - FACILITY SHOULD PAY
    - CUSTOMER SHOULD PAY
  - •NAVAIR 6.0 WILLING TO PAY FOR IMPLEMENTATION
    - WILL NOT PAY FOR CERTIFICATION
  - ALBANY WANTS CERTIFICATION FOR COMPETITIVE ADVANTAGE
- WHO DOES IN-HOUSE VALIDATION
  - NO AUTHORIZATION FOR DCMC
  - COULD FALL TO BUYING COMMAND
    - IF BUYING COMMAND DOES REVIEW, DCMC MAY LOOK AT FINAL REPORT AND VALIDATE IF NEED BE



#### IN-HOUSE (GOVERNMENT) EVMS WORKSHOP

•VALIDATION: (continued)

- NO CONSESUS FOR LESS THAN FULL ACCEPTANCE
  - ALL 32 CRITERIA OR NOTHING
- •NAVAIR HAS SIGNED FOR ACCEPTANCE AND WILL CONTINUE TO SIGN FOR NON-DOD ACCEPTANCE
  - FOR SERVICE ONLY ACCEPTANCE
- DCMC ONLY ONE TO SIGN FOR DOD ACCEPTANCE
- LESSONS LEARNED:
  - CAREFULLY EVALUATE IF FULL DOD VALIDATION IS NECESSARY
  - THERE IS MORE THAN ONE WAY TO ACHIEVE VALIDATION



# IN-HOUSE (GOVERNMENT) EVMS WORKSHOP

#### SURVEILLANCE

- DECIDE EARLY HOW SURVEILLANCE WILL BE ACCOMPLISHED
  - ALBANY DECIDED EARLY TO USE IN-HOUSE STAFF
  - AT THIS TIME DCMC NOT AUTHORIZED FOR IN-HOUSE SURVEILLANCE
- APPROACHES TO ACCOMPLISH SURVEILLANCE
  - COULD INCLUDE USE OF METRICS
  - UTILIZE IN-HOUSE STAFF
  - UTILIZE PROGRAM OFFICE STAFF
- BEST PRACTICE
  - USE IN-HOUSE STAFF WITH PMO/PEO INVOLVEMENT



# VALIDATION & SURVEILLANCE

Mr. William "Bill" Gibson Mr. Dominic A. "Chip" Thomas



- Short History of EVMS Validation/Surveillance
- Review all Government plans to complete effort
  - General Order Summary
  - Organization and WBS Structure
  - Responsibility Assignment Matrix
  - Work Authorization Documents
  - Network/Program Schedules
  - Earned Value Methods
  - Cost Account Plans
  - Baseline Maintenance
- •How do we do this?
  - CONCERNS:
    - Categorize Concerns



- CONCERNS: (continued)
- Evaluation Events:
  - Will All Criteria Be Reviewed?
    - Incremental Visits
    - As Subsystems Compliance is Completed
    - Full Demonstration
      - When Will They be Ready to Demonstrate
    - Will an IBR be Part of the Process
      - Can IBR be Part of a Demonstration
- Accounting Will DCAA be involved????
  - Recognized, Acceptable, Costing Techniques



- CONCERNS: (continued)
- Material Accounting System Does It Provide For:
  - Accurate Cost Accumulation
  - Assignment of Costs to Control Accounts in a Manner Consistent with the Budget
  - Cost Performance Measurement at a Point of Time Suitable for Material Involved
  - Full Accountability of all Material
- Analysis and Management Reports:
  - Will Monthly Data/Information be Generated at the Control Account Level
  - Will Data be Actual Cost Data from the Accounting System
  - What Time Frame can this be Expected



- CONCERNS: (continued)
- Revisions and Data Maintenance:
  - Will Authorized Changes be Incorporated in a Timely Manner?
  - Will Retroactive Changes be Controlled?
  - Prevent Revisions to the Program Budget Except for Authorized Changes
  - Insure All Changes Are Documented ( UB & MR)
- Surveillance
  - How Will It Be Accomplished?
    - Who Will Accomplish System Surveillance?
    - Who Will Accomplish Program Surveillance?
    - Will DCAA do Accounting Surveillance?



- •CONCERNS: (continued)
- •Data/Information Required:
  - Will a Detail Presentation of Their Management System be Required?
  - Will Compliance with All 32 Criteria be Required?
  - What Monthly Reports Will Be Required



DCMC HQ, Ft. Belvoir, VA

Bill Gibson (703)767-3368 Mike Lowry (703)767-3357

http://www.dcmc.hq.dla.mil/teaminfo/AQOF/earnval.htm

#### DCMC EVMS Center Personnel, Carson, CA

Tom Bryant (Acting) Director,	(310) 900-6700
Rosie Pominville, Administrative Support	(310) 900-6701
Gayle Brooks, EVMS Specialist	(310) 900-6702
Tom Bryant, EVMS Specialist	(310) 900-6705
Richard Carroll, EVMS Specialist	(310) 900-6703
Walter Juzefczyk, EVMS Specialist	(310) 900-6704
D.A."Chip" Thomas, EVMS Specialist	(310) 900-6706
EVMS Center Hotline	(888) 565-EVMS

Homepage - http://evms.dcmdw.dla.mil

#### IN-HOUSE EVM WORKSHOP 22-23 JUNE 1999

#### ANALYSIS AND TRAINING ISSUES AND RECOMMENDATIONS

#### • ANALYSIS:

1. ISSUE – Level of WBS?

RECOMMENDATION – Depends on level of management. Starts where work is performed and up.

2. ISSUE -- Depot Level Managers not requiring and using EVM information to manage.

RECOMMENDATION – Provide Integrated EVM Education and Training (see Training issue # 1).

3. ISSUE - All EVM customers are not recognized. Example: Operational chain of command.

RECOMMENDATION – Recognize the value of EVM information for ALL customers.

#### • TRAINING:

1. ISSUE – Government Management incentives. Example: Expenditure Rates.

RECOMMENDATION – A. "Integrated" Training as to the interdependencies of funds, budget, and EVM information in our performance based disciplines.

Example: EVM information includes organization, work authorization, scheduling, planning and budgeting, accounting, performance status (technical, schedule and cost), and analysis – all indicative of budget and funds required for effort accomplished and effort remaining.

RECOMMENDATION – B. Workshops for Users and Customers.

ACTION: DSMC EVM CHAIR - Dave Melton

2. ISSUE – Workforce Education needs to be emphasized.

RECOMMENDATION – Obtain Continuing Education Units (CEU) endorsements from all functional boards. Examples include the BCFM, AMFB, SPRDE, etc.

ACTION: Joni Forman, OUSD(A&T)SA/PM

3. ISSUE – No "One Size Fits All"

#### RECOMMENDATION -

- A. Target audiences and issues (Identify Roles and Responsibilities)
- B. Provide Web Based Instruction, Schools, and On Site Training
- C. Train the Trainers
- D. Provide Procedural Training
- E. Provide One and One Training

- Purpose
  - Process Data and execute transactions
  - Track Expenditure of Appropriated Funds
  - Provide Management Information

#### Structure

- Data Processing Centrally controlled DoD system managed by DFAS
- Tracking Expenditure of Appropriated
   Funds Decentralized
- Management Information Ad Hoc primarily related to funds tracking

- Governing Regulatory Requirements
  - Commercial Industry
    - Financial Standards Accounting Board (GAAP)
    - Internal Revenue Service Tax Accounting
    - DoD Cost Accounting Standards
  - Government Accounting
    - Appropriation Law and Regulation

DoD Directive 5000.1b

- g. Management Control
- .... "In implementing internal management control systems, managers shall focus on results, not process"

- Intent EVM Accounting Criteria :
  - Record costs consistent with established budgets
  - Insure control of indirect costs
  - Insure disciplined accumulation of cost
  - Insure proper material accounting and performance application

#### **Issues:**

- 1 Is the capability of the Government accounting system compatible with EVM Accounting criteria?
- 2 What specific accounting functions are necessary to provide management data?
- 3 How can Government facilities acquire the necessary accounting capability?
- 4 Who should be responsible for acquiring accounting capability?
- 5 Identify applicable accounting initiatives currently under way

#### Summary of Issues:

1 Is the capability of the Government accounting system compatible with EVM Accounting criteria?

Yes, this team believed that Government accounting systems are compatible with meeting EVM criteria.

2 What specific accounting functions are necessary to provide management data?

A cost charging system that collects by budget element

Historical data storage system that can be accessed for periodic reporting

#### Summary of Issues:

- 3 How can Government facilities acquire the necessary accounting capability?
  - By working with the applicable personnel with in a facility this capability can be develop, or
  - Off line systems can be developed as a last resort
- 4 Who should be responsible for acquiring accounting capability?

Facility managers, comptrollers, information systems, and program mangers must work together to develop this capability